

Title (en)
HIGH SPECIFIC MECHANICAL ENERGY EXTRUSION SCREW ASSEMBLY

Title (de)
EXTRUSIONSSCHNECKENANORDNUNG MIT HOHER SPEZIFISCHER MECHANISCHER ENERGIE

Title (fr)
ENSEMBLE VIS D'EXTRUSION À ÉNERGIE MÉCANIQUE SPÉCIFIQUE ÉLEVÉE

Publication
EP 3547853 A2 20191009 (EN)

Application
EP 18808971 A 20180516

Priority
• US 201762513899 P 20170601
• US 2018033001 W 20180516

Abstract (en)
[origin: WO2018222393A2] High Specific Mechanical Energy extruder screw assemblies (14, 88, 98) and complete extruders (10, 86, 96) are provided, which include wide-flight intermediate screw sections (104) having axial flight widths greater than the flight widths of the inlet and outlet screw sections (102, 106) on opposite sides of the intermediate sections (104). The intermediate sections (104) provide increased friction and shear serving to enhance the SMEs imparted to comestible food materials during processing thereof.

IPC 8 full level
A23N 17/00 (2006.01); **A23P 30/20** (2016.01)

CPC (source: EP KR US)
A23K 40/25 (2016.05 - US); **A23N 17/005** (2013.01 - EP KR US); **A23P 30/20** (2016.07 - EP KR US); **B01F 27/1143** (2022.01 - US); **B29C 48/2561** (2019.01 - EP US); **B29C 48/2564** (2019.01 - EP US); **B29C 48/25682** (2019.01 - EP US); **B29C 48/507** (2019.01 - EP US); **B29C 48/535** (2019.01 - EP US); **B29C 48/615** (2019.01 - US); **B01F 2101/06** (2022.01 - US); **B01F 2101/09** (2022.01 - US); **B01F 2101/18** (2022.01 - US); **B29C 48/57** (2019.01 - US); **B29C 48/60** (2019.01 - US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2018222393 A2 20181206; WO 2018222393 A3 20190221; AU 2018275182 A1 20190725; BR 112019015212 A2 20200324; CA 3050964 A1 20181206; CL 2019002066 A1 20191011; CN 110381752 A 20191025; EC SP19054477 A 20201030; EP 3547853 A2 20191009; EP 3547853 A4 20200805; JP 2020521432 A 20200727; KR 20200003780 A 20200110; MX 2019009375 A 20190923; PH 12019501699 A1 20200309; US 10624382 B2 20200421; US 11254041 B2 20220222; US 2018343914 A1 20181206; US 2020113222 A1 20200416

DOCDB simple family (application)
US 2018033001 W 20180516; AU 2018275182 A 20180516; BR 112019015212 A 20180516; CA 3050964 A 20180516; CL 2019002066 A 20190724; CN 201880008653 A 20180516; EC DI201954477 A 20190729; EP 18808971 A 20180516; JP 2019540401 A 20180516; KR 20197022370 A 20180516; MX 2019009375 A 20180516; PH 12019501699 A 20190724; US 201815981557 A 20180516; US 201916710379 A 20191211